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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/752,912	12/28/2000	Malcolm M Smith	062891.0443	9607

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EXAMINER

JAGANNATHAN, MELANIE

ART UNIT	PAPER NUMBER
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2666

DATE MAILED: 12/24/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/752,912

Applicant(s)

MALCOLM M. SMITH

Examiner

Melanie Jagannathan

Art Unit

2666

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 December 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s) _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Frid et al. US 6,137,791.

Regarding claims 1-2, 7-9, 14-15, 20, 26-27, the claimed receiving of device identifier from a mobile unit is disclosed by mobile station (Figure 1, element 20) transmitting mobile identification number to base station (element 30). The claimed determining a home agent for mobile unit based on device identifier is disclosed by base station forwarding MIN to visited mobile switching center (element 4) serving that area and using MIN identifies HLR (element 50) associated with mobile station (element 20). The claimed requesting subscription information from home agent, wherein subscription information comprises an IP address for mobile unit is disclosed by VMSC transmitting location update signal to HLR where HLR has stored data correlating the received MIN with a corresponding IP address assigned to mobile station, and HLR providing subscriber data back to VMSC. The claimed initiating registration of foreign agent with home agent, wherein the registration permits foreign agent to receive redirect packets from home agent is disclosed by GPMSC (element 70) establishing IP tunnel (element 90) with VPMSC. See column 4, lines 14-67 and column 5, lines 1-37.

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Regarding claims 3, 16, the claimed IP address of mobile unit specifying network identifier identical to that specified by an IP address of home agent is disclosed by within PMM network, mobile unit assigned PMM network dependent IP address. See column 5, lines 3-4.

Regarding claims 4, 10, 17, 28, the claimed registration comprising a registration request to home agent including IP address of mobile unit and IP address of foreign agent is disclosed by GPMSC establishing tunnel through use of HLR (element 50) sending it routing instructions including IP address representing VPMSC and HLR retains information about current location of mobile station and correlating of MIN to mobile IP address.

Regarding claims 5, 11-12, 18, 29, the claimed redirect packets addressed to IP address of foreign agent and each redirect packet comprises as a payload a data packet addressed to IP address of mobile unit is disclosed by GPMSC encapsulating IP packet data addressed to mobile station within another IP packet addressed to VPMSC. See column 5, lines 24-27.

Regarding claims 6, 13, 19, 30, the claimed receiving redirect packets, extracting data packets from redirect packets and communicating data packets to mobile unit is disclosed by VPMSC extracting encapsulated original IP packet and identifies mobile station and forwarding extracted IP packet data to VMSC and delivered to mobile station. See column 5, lines 28-37.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Amin et al. US 6,411,807 disclose roaming authorization system.

Bergenwall et al. US 6,567,664 disclose registration for mobile nodes in wireless Internet protocols.

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Lee US 6,539,225 discloses seamless data network telecommunication service during mobile wireless call handoff.

Johnson et al. US 6,625,135 disclose method and apparatus for incorporating environmental information for mobile communications.

La Porta et al. US 6,496,505 disclose packet tunneling optimization to wireless devices accessing packet based wired networks.

Jiang, Zhimei, AT & T Labs Research, "Incorporating Proxy Services into Wide Area Cellular IP Networks".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Jagannathan whose telephone number is 703-305-8078. The examiner can normally be reached on Monday-Friday from 8:00 a.m.-4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 703-308-5463. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Melanie Jagannathan
Patent Examiner
AU 2666

MJ

(10)

For Seema Rao
Jul 17
KANE BONG